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Method of assessing the thermal state of the heat transfer surfaces

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Abstract

© 2018 Institute of Physics Publishing. All rights reserved. One of methods of increase in efficiency of the heat exchange equipment is timely detection of a sludge formation and scum on heat exchange surfaces. Deposits of salts and products of corrosion from technical water on the surface of heating of heat exchange devices reduce coefficient of a heat transfer and efficiency of heat exchange that leads to a considerable overexpenditure of energy carriers, overheating of surfaces of heating of coppers, decrease in service life, increase in costs of service and repair of the heat exchange equipment. Reliable methods and control devices of intensity of formation of deposits in the heat exchange equipment don't exist now. In work the method the express of control of thickness of deposits on heat exchange surfaces allowing to make control of a thermal condition of heat exchange surfaces is offered and in due time to carry out washing of devices.

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